Katherine Keiko Nishimura, PhD, MPH

103 E. Lynn Street, #201, Seattle, WA 98102
knishimura@gmail.com   cell: 617-650-1915
www.linkedin.com/in/katherinenishimura

Profile

PhD level epidemiologist with work experience in academia, government, and industry. Over 10 years of research experience in epidemiology, biostatistics and genetic epidemiology.

- Data analysis, interpretation, and publication of epidemiologic findings from case-control studies, cohort studies, clinical trials, systematic reviews, and meta-analysis using multivariate logistic regression, linear regression, and survival analysis.
- Programming for data cleaning, data management, power calculations, and statistical analysis tasks using R (preferred), SAS, and Stata. Some experience in analysis of high-dimensional genetic data, including chip-based array data (GWAS) and Next Generation Sequencing data (Whole Exome Sequencing).
- Research expertise in many disease areas including sickle cell anemia, tuberculosis, asthma, influenza, CD4+ idiopathic lymphocytopenia, inflammatory traits, lung cancer, multiple myeloma, and pancreatic cancer.
- Strong record in peer-reviewed publications, grant submissions, oral and poster presentations, and cultivation of dynamic national and international multi-institutional collaborations.
- Working knowledge of Linux command-line interface, high-performance computing, python, Amazon Web Services cloud computing, GitHub, and Adobe Creative Suite Programs (InDesign, Photoshop, Illustrator).

Education

- University of California, San Francisco, PhD in Epidemiology & Translational Science (8/2010 – 6/2014)
- University of California, Berkeley, MPH in Epidemiology & Biostatistics (8/2008 – 6/2010)
- Harvard University, BA in Organismic and Evolutionary Biology (8/2002 – 6/2006)

Research and Professional Experience

Cancer Research and Biostatistics (CRAB), Seattle WA   4/2018 – Present, Full Time
Statistics Department   Senior Biostatistician
Supervisor: Antje Hoering, PhD

- International Association for the Study of Lung Cancer (IASLC)
  - Directed ongoing data collection and cleaning for the 9th Edition IASLC database, which will be used to update the lung cancer staging criteria to be adopted by the American Joint Committee on Cancer (AJCC) and the Union for International Cancer Control (UICC).
  - Advised and directed interim analyses examining prognostic factors that predict lung cancer survival as part of the statistics core for the IASLC, including using SAS for Cox regression, sample size projections, and recursive partitioning trees.
  - Served as CRAB liaison on the IASLC steering committee, advocated for data quality issues to be addressed across 14 subcommittees.
  - Prepared tables, figures, and presentations using SAS and R for annual Staging and Prognostic Factor meetings at the World Conference for Lung Cancer, on behalf of multiple subcommittees (Prognostic Factors, Methods and Validation, Molecular, N descriptors, Stage).
  - Coordinated the revision and restructuring of the IASLC electronic data capture forms to collect genetic and biomarker testing results.
- Friends of Cancer Research, ctDNA to Monitor Treatment Response (ctMoniTR) collaboration
  - Wrote proposals for analysis of the ctMoniTR project which aimed to use circulating tumor DNA (ctDNA) to predict tumor response to PD-L1 or PD-1 immunotherapies.
  - Planned and oversaw mapping and harmonization effort of multiple, disparate datasets submitted by academic, pharmaceutical, and diagnostic collaborators.

- o Led the activities of the Independent Analysis Center, including conference calls, in-person meetings, virtual webinars, data management tasks including statistical analysis plans, data dictionaries, secure data transfer, coding analyses in SAS and R, and writing reports.
- UAMS Myeloma Institute
  - o Conducted analyses as part of the statistics center for the University of Arkansas of Medical Sciences (UAMS) Myeloma Institute to understand predictors of survival and relapse among multiple myeloma patients, including survival analyses, Cox regression, Relative Survival Analysis, and Cure modeling using SAS.
  - o Developed statistical analysis plans for grant submission, including power and sample size calculations.
  - o Prepared internal reports, presented findings at the American Society of Hematology, and published results in *Blood Advances*.
- Miscellaneous projects:
  - o SMRT Smoldering Myeloma Risk in African Americans: Assisted with designing electronic Case Report Forms (eCRF) and data quality edit checks.
  - o Castleman's Disease: Supervised a secondary data analysis on Siltuximab clinical trials data.
  - o Max Foundation: Created tables and figures in R for the American Society of Clinical Oncology annual meeting, and Annual Review of Pathology publication.
  - o Pancreatic Cancer Research Team (PCRT): Reviewed and updated the research protocol for Phase I clinical trials.
- General tasks
  - o Assisted with writing grants and bid proposals for Stand Up to Cancer, NYU SMRT Smoldering Myeloma Study, and IASLC Lung Cancer Neoadjuvant Trial Endpoint Database (LCNTED).
  - o Recruitment, hiring, management, and supervision of Masters-level statisticians.
  - o Monitored the budget on multi-year projects.
  - o Statistics Department representative on CRAB's High-Level Management Team (HLMT).
  - o HLMT representative on CRAB's Lunch-and-Learn committee.

Fred Hutchinson Cancer Research Center, Seattle WA   2/2016 – 3/2018, Full Time
Public Health Sciences Division   Post-doctoral fellow
Mentors: Ulrike Peters, PhD, MPH; Charles Kooperberg, PhD
- PAGE-II Flagship Paper
  - o Coordinated analysis efforts on a Genome-Wide Association Study of 26 clinical traits in nearly 50,000 PAGE-II African Americans, Asians, Hispanics, and European Americans.
  - o Wrote the first draft of the manuscript (shared first author) and prepared results for White Blood Cell count, C-reactive Protein levels, High-Density Lipoprotein, Low-Density Lipoprotein, Triglycerides, and Total Cholesterol.
  - o Published in *Nature*.
- Trans-Ethnic Genetic Fine-Mapping of Body Max Index (BMI) Loci
  - o Assessed results from the Population Architecture using Genomics and Epidemiology (PAGE) consortium meta-analysis on BMI in 102,000 African Americans, Asians, Hispanics, and European Americans.
  - o Published in the *International Journal of Obesity*.
- Multi-ethnic Genome-Wide Association Analysis of White Blood Cell and Platelet Traits in the Population Architecture using Genomics and Epidemiology (PAGE) Study
  - o Conducted a GWAS in 24,000 minorities from the PAGE II consortium using genotyped data from the MEGA array and imputed genotypes using the 1000 Genomes Project. Assisted with fine-mapping to identify novel associations in known loci.
  - o Published in *BMC Genetics*.

National Institutes of Health, Bethesda, MD   3/2015 – 2/2016, Full Time
National Institute of Allergy and Infectious Diseases   Post-doctoral fellow
Mentors: Rebecca Prevots, PhD; Sally Hunsberger, PhD

- Idiopathic CD4+ Lymphocytopenia (ICL) Whole Exome Sequencing Analysis
    - Developed and executed a research strategy to identify novel single nucleotide variants (SNVs) associated with the development of ICL in 29 patients from an NIH natural history study.
    - Performed data manipulation and statistical analysis of whole exome sequencing data in R.
- La Red Study of Influenza-Like Illnesses (ILI), Mexico City
    - Provided guidance on statistical methods and study design of secondary data analysis projects. Interpreted statistical finding and participated in manuscript preparation.
    - Used R and SAS software to analyze La Red cohort data and describe viral etiology and clinical characteristics of (1) asthma exacerbations associated with ILI, (2) severe pediatric cases of ILI, and (3) air pollution exposures associated with severe ILI.
    - Manuscripts published in *Influenza and Other Respiratory Viruses* and *Annals of Allergy, Asthma & Immunology.*

University of California – San Francisco, San Francisco, CA　　　　　6/2012 – 6/2014, Full Time
Department of Medicine　　　　　　　　　　　　　　　　　　　　　　Graduate Student Researcher
Mentor: Esteban Burchard, MD, MPH
- Dissertation Project: Environmental, Genetic and Social Predictors of Asthma in Latino and African American Children
    - Dissertation Paper #1: Early-life exposure to traffic-related air pollution may cause childhood asthma in US minorities, with increased risk seen in African American children. This association was present at pollution exposures that satisfied the current EPA standards.
    - Dissertation Paper #2: Current exposure to traffic-related air pollution was associated with lung deficiencies. Different US minorities showed varying levels of lung function impairment, with Puerto Ricans and African Americans having the greatest deficiencies.
    - Dissertation Paper #3: Early-life exposure to traffic-related air pollution may be associated with increased risk for developing non-atopic childhood asthma. Exposure to ozone may be partially responsible for this subtype of asthma and sheds light into possible mechanisms for asthma development.

Investigen, Inc., Hercules, CA　　　　　　　　　　　　　　　　　10/2008 – 10/2011, Part Time
Supervisor: Heather Koshinsky, PhD　　　　　　　　　　　　　　　　　　　Research Assistant
- MLPA Diagnostics
    - Led analyses exploring the properties of Multiplex Ligation-dependent Probe Amplification assay to detect mutations associated with drug resistant strains of *M. tuberculosis* in clinical samples.
- SNAP Reagent
    - Assessed Investigen's proprietary SNAP reagent as a potential product for long-term storage and transport of DNA and RNA samples at room temperature, for use in down-stream sequencing applications.
- smartDNA Diagnostics
    - Designed experiments for pilot testing of smartDNA detection of bacterial species in clinical (*M. tuberculosis*, methicillin resistant *S. aureus*) and bioterrorism (*B. anthracis, Y. pestis, F. tularensis*) samples.

University of California – Berkeley, Berkeley, CA　　　　　　　　　　　9/2008 – 6/2010, Full Time
School of Public Health　　　　　　　　　　　　　　　　　　　　　　　　　Masters Student
Advisors: Tomas Aragon, MD, DrPH; Gertrude Buerhing, PhD
- Project: Masters Thesis: The Potential Use of the smartDNA Assay in a Novel Tuberculosis Diagnostic Assay
    - Used various modeling techniques (logistic regression, discriminate analysis, principal component analysis, classification and regression trees) to assess various candidate probes, with the goal to maximize the sensitivity and specificity of the smartDNA assay.
    - Results: Of 7 candidate probes, the use of multiple probes (3-5) was recommended for the final smartDNA assay. Variation in sample preparation and DNA quality may lead to false negative

and false positive findings and stringent standardization is recommended to improve assay reliability and reproducibility.

Beth Israel Deaconess Medical Center, Boston, MA   9/2006 – 9/2008, Full Time
Supervisors: Boris Shmukler, PhD; Seth Alper, MD, PhD   Research Assistant
- Project: Red Blood Cell Volume Regulation in Sickle Cell Anemia and Thalassemia Mouse Models
  - Conducted KCl co-transport flux experiments using blood from sickle cell mice. Obtained hematocrit and basic blood measurements using the Advia Hematology Analyzer. Measured K+ and Cl- efflux using atomic absorption spectroscopy.
  - Genotyped members of a transgenic and knock-out mouse colony using Qiagen Blood and Tissue DNA isolation kits and PCR. Experience in handling mice, including tailing, ear labeling, tail bleeding, and euthanasia.
  - Performed site-directed mutagenesis and recombinant PCR to study the expression and function of mutated transmembrane proteins expressed in *Xenopus* oocytes.
  - Experience in bacterial transformations, restriction reaction, and plasmid DNA isolation with Eppendorf Perfectprep Plasmid kits.

Peer-Reviewed Publications
- Hu Y, Bien SA, **Nishimura KK**, Haessler J, Hodonsky CJ, Baldassari AR, Highland HM, Wang Z, Preuss M, Sitlani CM, Wojcik GL, Tao R, Graff M, Huckins LM, Sun Q, Chen MH, Mousas A, Auer PL, Lettre G; Blood Cell Consortium, Kooperberg C. Multi-ethnic genome-wide association analyses of white blood cell and platelet traits in the Population Architecture using Genomics and Epidemiology (PAGE) study. BMC Genomics. 2021 Jun 9;22(1):432. doi: 10.1186/s12864-021-07745-5. PMID: 34107879; PMCID: PMC8191001.
- Osarogiagbon RU, Rami-Porta R, Tsao MS, Montuenga LM, **Nishimura KK**, Giroux D, Travis W, Asamura H, Rusch V, Carbone DP, Hirsch FR; members of the IASLC Molecular Sub-Committee and the Staging and Prognostic Factors Committee. The International Association for the Study of Lung Cancer (IASLC) Molecular Database Project: Objectives, Challenges and Opportunities. J Thorac Oncol. 2021 Mar 23:S1556-0864(21)01781-0. doi: 10.1016/j.jtho.2021.03.003. Epub ahead of print. PMID: 33771657.
- Hu Y, Graff M, Haessler J, Buyske S, Bien SA, Tao R, Highland HM, **Nishimura KK**, Zubair N, Lu Y, Verbanck M, Hilliard AT, Klarin D, Damrauer SM, Ho YL; VA Million Veteran Program, Wilson PWF, Chang KM, Tsao PS, Cho K, O'Donnell CJ, Assimes TL, Petty LE, Below JE, Dikilitas O, Schaid DJ, Kosel ML, Kullo IJ, Rasmussen-Torvik LJ, Jarvik GP, Feng Q, Wei WQ, Larson EB, Mentch FD, Almoguera B, Sleiman PM, Raffield LM, Correa A, Martin LW, Daviglus M, Matise TC, Ambite JL, Carlson CS, Do R, Loos RJF, Wilkens LR, Le Marchand L, Haiman C, Stram DO, Hindorff LA, North KE, Kooperberg C, Cheng I, Peters U. Minority-centric meta-analyses of blood lipid levels identify novel loci in the Population Architecture using Genomics and Epidemiology (PAGE) study. PLoS Genet. 2020 Mar 30;16(3):e1008684. doi: 10.1371/journal.pgen.1008684. PMID: 32226016; PMCID: PMC7145272.
- Shmukler BE, Rivera A, Bhargava P, **Nishimura K**, Kim EH, Hsu A, Wohlgemuth JG, Morton J, Snyder LM, De Franceschi L, Rust MB, Hubner CA, Brugnara C, Alper SL. Genetic disruption of KCC cotransporters in a mouse model of thalassemia intermedia. Blood Cells Mol Dis. 2020 Mar;81:102389. PMID: 31835175. PMCID: PMC7002294.
- **Nishimura KK**, Barlogie B, van Rhee F, Zangari M, Walker BA, Rosenthal A, Schinke C, Thanandrarajan S, Davies FE, Hoering A, Morgan GJ. Long Term Outcomes After Autologous Stem Cell Transplantation for Multiple Myeloma. Blood Adv. 2020 Jan 28;4(2):422-431. PMID: 31990333. PMCID: PMC6988393.
- Shmukler BE, Rivera A, Bhargava P, **Nishimura K**, Hsu A, Kim EH, Trudel M, Rust MB, Hubner CA, Brugnara C, Alper SL. Combined genetic disruption of K-Cl cotransporters and Gardos channel KCNN4 rescues erythrocyte dehydration in the SAD mouse model of sickle cell disease. Blood Cells Mol Dis. 2019 Nov;79:102346. PMID: 31352162. PMCID: PMC6744291

- Feczko AF, Wang H, **Nishimura KK**, Farivar AS, Bograd AJ, Vallières E, Aye RW, Louie BE. Proficiency of Robotic Lobectomy Based on Prior Surgical Technique in The Society of Thoracic Surgeons General Thoracic Database. Ann Thorac Surg. 2019 Oct;108(4):1013-1020. PMID: 31175871.
- Wojcik GL*, Graff M*, **Nishimura KK***, Tao R*, Haessler J*, Gignoux CR*, Highland HM*, Patel YM*, Sorokin EP, Avery CL, Belbin GM, Bien SA, Cheng I, Cullina S, Hodonsky CJ, Hu Y, Huckins LM, Jeff J, Justice AE, Kocarnik JM, Lim U, Lin BM, Lu Y, Nelson SC, Park SL, Poisner H, Preuss MH, Richard MA, Schurmann C, Setiawan VW, Sockell A, Vahi K, Verbanck M, Vishnu A, Walker RW, Young KL, Zubair N, Acuña-Alonso V, Ambite JL, Barnes KC, Boerwinkle E, Bottinger EP, Bustamante CD, Caberto C, Canizales-Quinteros S, Conomos MP, Deelman E, Do R, Doheny K, Fernández-Rhodes L, Fornage M, Hailu B, Heiss G, Henn BM, Hindorff LA, Jackson RD, Laurie CA, Laurie CC, Li Y, Lin DY, Moreno-Estrada A, Nadkarni G, Norman PJ, Pooler LC, Reiner AP, Romm J, Sabatti C, Sandoval K, Sheng X, Stahl EA, Stram DO, Thornton TA, Wassel CL, Wilkens LR, Winkler CA, Yoneyama S, Buyske S**, Haiman CA**, Kooperberg C**, Le Marchand L**, Loos RJF**, Matise TC**, North KE**, Peters U**, Kenny EE**, Carlson CS**. Genetic analyses of diverse populations improves discovery for complex traits. *Shared first authorship. **Shared senior authorship. Nature. 2019 Jun;570(7762):514-518. PMID: 31217584. PMCID: PMC6785182.
- Ortiz-Hernández AA, **Nishimura KK**, Noyola DE, Moreno-Espinosa S, Gamiño A, Galindo-Fraga A, Valdéz Vázquez R, Magaña Aquino M, Ramirez-Venegas A, Valdés Salgado R, Andrade-Platas D, Estevez-Jimenéz J, Ruiz-Palacios GM, Guerrero ML, Beigel J, Smolskis MC, Hunsberger S, Freimanis-Hence L, Llamosas-Gallardo B; Mexico Emerging Infectious Diseases Clinical Research Network (La Red). Differential Risk of Hospitalization Among Single Virus Infections Causing Influenza-like Illnesses. Influenza Other Respir Viruses. 2019 Jan;13(1):36-43. PMID: 30137695. PMCID: PMC6304313.
- Kocarnik JM, Richard M, Graff M, Haessler J, Bien S, Carlson C, Carty C, Reiner AP, Avery CL, Ballantyne CM, LaCroix AZ, Assimes TL, Barbalic M, Pankratz N, Tang W, Tao T, Chen D, Talavera GA, Daviglus ML, Chirinos DA, Pereira R, **Nishimura KK**, Bůžková P, Best LG, Ambite JL, Cheng I, Crawford DC, Hindorff LA, Fornage M, Heiss G, North KE, Haiman CA, Peters U, Le Marchand L, Kooperberg C. Discovery, fine-mapping, and conditional analyses of genetic variants associated with C-reactive protein in multiethnic populations using the Metabochip in the Population Architecture using Genomics and Epidemiology (PAGE) study. Hum Mol Genet. 2018 Jun 5. PMID: 29878111. PMCID: PMC6077792.
- Gong J, **Nishimura KK**, Fernandez-Rhodes L, Haessler J, Bien S, Graff M, Lim U, Lu Y, Gross M, Fornage M, Yoneyama S, Isasi CR, Buzkova P, Daviglus M, Lin DY, Tao R, Goodloe R, Bush WS, Farber-Eger E, Boston J, Dilks HH, Ehret G, Gu CC, Lewis CE, Nguyen KH, Cooper R, Leppert M, Irvin MR, Bottinger EP, Wilkens LR, Haiman CA, Park L, Monroe KR, Cheng I, Stram DO, Carlson CS, Jackson R, Kuller L, Houston D, Kooperberg C, Buyske S, Hindorff LA, Crawford DC, Loos RJF, Le Marchand L, Matise TC, North KE, Peters U. Trans-ethnic analysis of metabochip data identifies two new loci associated with BMI. Int J Obes (Lond). 2018 Mar;42(3):384-390. doi: 10.1038/ijo.2017.304. Epub 2017 Dec 21. PMID: 29381148. PMCID: PMC5876082.
- Fernández-Rhodes L, Gong J, Haessler J, Franceschini N, Graff M, **Nishimura KK**, Wang Y, Highland HM, Yoneyama S, Bush WS, Goodloe R, Ritchie MD, Crawford D, Gross M, Fornage M, Buzkova P, Tao R, Isasi C, Avilés-Santa L, Daviglus M, Mackey RH, Houston D, Gu CC, Ehret G, Nguyen KH, Lewis CE, Leppert M, Irvin MR, Lim U, Haiman CA, Le Marchand L, Schumacher F, Wilkens L, Lu Y, Bottinger EP, Loos RJL, Sheu WH, Guo X, Lee WJ, Hai Y, Hung YJ, Absher D, Wu IC, Taylor KD, Lee IT, Liu Y, Wang TD, Quertermous T, Juang JJ, Rotter JI, Assimes T, Hsiung CA, Chen YI, Prentice R, Kuller LH, Manson JE, Kooperberg C, Smokowski P, Robinson WR, Gordon-Larsen P, Li R, Hindorff L, Buyske S, Matise TC, Peters U, North KE. Trans-ethnic fine-mapping of genetic loci for body mass index in the diverse ancestral populations of the Population Architecture using Genomics and Epidemiology (PAGE) Study reveals evidence for multiple signals at established loci. Hum Genet. 2017 Jun;136(6):771-800. PMID: 28391526. PMCID: PMC5485655.
- **Nishimura KK**, Iwanaga K, Oh SS, Pino-Yanes M, Eng C, Keswani A, Roth LA, Nguyen EA, Thyne SM, Farber HJ, Serebrisky D, Meade K, LeNoir MA, Rodriguez-Cintron W, Borrell LN, Bibbins-Domingo K, Lurmann F, Sen S, Rodriguez-Santana JR, Brigino-Buenaventura E, Avila PC, Balmes JR,

Kumar R, Burchard EG. Early-life ozone exposure associated with asthma without sensitization in Latino children. J Allergy Clin Immunol. 2016 Dec;138(6):1703-1706.e1. PMID: 27423496. PMCID: PMC5148667.

- Oh S, Du R, Zeiger AM, Mcgarry ME, Hu D, Thakur N, Pino-Yanes M, Galanter JM, Farber HJ, Eng C, **Nishimura KK**, Huntsman S, Meade K, Avila P, Serebrisky D, Bibbins-Domingo K, Lenoir MA, Ford JG, Brigino-Buenaventura E, Rodriguez-Cintron W, Thyne SM, Sen S, Rodriguez-Santana JR, Williams K, Kumar R, Burchard EG. Breastfeeding associated with higher lung function in African American youths with asthma. J Asthma. 2016 Dec 8. PMID: 27929698. PMCID: PMC6130885.

- Paulin-Prado P, **Nishimura KK**, Freimanis-Hance L, Hunsberger S, Beigel J, Fraga AG, Ortiz Hernandez AA, Llamosas-Gallardo B, Moreno-Espinosa S, Magaña-Aquino M, Ruiz Palacios GM, Ramirez-Venegas A; Mexico Emerging Infectious Diseases Clinical Research Network. Clinical characteristics of asthmatic patients with influenza-like illness and risk of severe exacerbations in Mexico. Ann Allergy Asthma Immunol. 2016 Apr 1. PMID: 27052815. PMCID: PMC4860073.

- Neophytou AM, White MJ, Oh SS, Thakur N, Galanter JM, **Nishimura KK**, Pino-Yanes M, Torgerson DG, Gignoux CR, Eng C, Nguyen EA, Hu D, Mak AC, Kumar R, Seibold MA, Davis A, Farber HJ, Meade K, Avila PC, Serebrisky D, Lenoir MA, Brigino-Buenaventura E, Rodriguez-Cintron W, Bibbins-Domingo K, Thyne SM, Williams LK, Sen S, Gilliland FD, Gauderman WJ, Rodriguez-Santana JR, Lurmann F, Balmes JR, Eisen EA, Burchard EG. Air Pollution and Lung Function in Minority Youth with Asthma in the GALA II & SAGE II Studies. Am J Respir Crit Care Med. 2016 Jan 6. PMID: 26734713. PMCID: PMC4910900.

- **Nishimura KK**, Galanter JM, Roth LA, Oh SS, Farber HJ, Serebrisky D, Kumar R, Borrell LN, Brigino-Buenaventura E, Davis A, LeNoir MA, Meade K, Rodriguez-Cintron W, Avila PC, Rodriguez-Santana JR, Lurmann F, Sen S, Balmes JR, Burchard EG. Early Life Air Pollution and Asthma Risk in Minority Children: The GALA II & SAGE II Studies. Am J Respir Crit Care Med. 2013 Aug 1;188(3):309-18. PMID: 23750510. PMCID: PMC3778732.

- Pino-Yanes M, Gignoux CR, Galanter JM, Levin AM, Campbell CD, Eng C, Huntsman S, **Nishimura KK**, Gourraud PA, Mohajeri K, O'Roak BJ, Hu D, Mathias RA, Nguyen EA, Roth LA, Padhukasahasram B, Moreno-Estrada A, Sandoval K, Winkler CA, Lurmann F, Davis A, Farber HJ, Meade K, Avila PC, Serebrisky D, Chapela R, Ford JG, Lenoir MA, Thyne SM, Brigino-Buenaventura E, Borrell LN, Rodriguez-Cintron W, Sen S, Kumar R, Rodriguez-Santana JR, Bustamante CD, Martinez FD, Raby BA, Weiss ST, Nicolae DL, Ober C, Meyers DA, Bleecker ER, Mack SJ, Hernandez RD, Eichler EE, Barnes KC, Williams LK, Torgerson DG, Burchard EG. Genome-wide association study and admixture mapping reveal new loci associated with total IgE levels in Latinos. J Allergy Clin Immunol. 2015 Jun;135(6):1502-10. PMID: 25488688. PMCID: PMC4458233.

- Pino-Yanes M, Thakur N, Gignoux CR, Galanter JM, Roth LA, Eng C, **Nishimura KK**, Oh SS, Vora H, Huntsman S, Nguyen EA, Hu D, Drake KA, Conti DV, Moreno-Estrada A, Sandoval K, Winkler CA, Borrell LN, Lurmann F, Islam TS, Davis A, Farber HJ, Meade K, Avila PC, Serebrisky D, Bibbins-Domingo K, Lenoir MA, Ford JG, Brigino-Buenaventura E, Rodriguez-Cintron W, Thyne SM, Sen S, Rodriguez-Santana JR, Bustamante CD, Williams LK, Gilliland FD, Gauderman WJ, Kumar R, Torgerson DG, Burchard EG. Genetic ancestry influences asthma susceptibility and lung function among Latinos. J Allergy Clin Immunol. 2015 Jan;135(1):228-35. PMID: 25301036. PMCID: PMC4289103.

- Aktipis CA, Ellis BJ, **Nishimura KK**, Hiatt RA. Modern reproductive patterns associated with estrogen receptor positive but not negative breast cancer susceptibility. Evol Med Public Health. 2014 Nov 10;2015(1):52-74. PMID: 25389105. PMCID: PMC4362290.

- Xu C, Shmukler BE, **Nishimura KK**, Kaczmarek E, Rossetti S, Harris PC, Wandinger-Ness A, Bacallao RL, Alper SL. Attenuated, flow-induced ATP release contributes to absence of flow-sensitive, purinergic Cai2+ signaling in human ADPKD cyst epithelial cells. Am J Physiol Renal Physiol. 2009 Jun;296(6):F1464-76. PMID: 19244404. PMCID: PMC2692447.

- Choi BY, Stewart AK, **Nishimura KK**, Cha WJ, Seong MW, Park SS, Kim SW, Chun YS, Chung JW, Park SN, Chang SO, Kim CS, Alper SL, Griffith AJ, Oh SH. Efficient molecular genetic diagnosis of enlarged vestibular aqueducts in East Asians. Genet Test Mol Biomarkers. 2009 Oct;13(5):679-87. PMID: 19645628. PMCID: PMC2953255.

- Feng J, Liu Y, Clements RT, Sodha NR, Khabbaz KR, Senthilnathan V, **Nishimura KK**, Alper SL, Sellke FW. Calcium-activated potassium channels contribute to human coronary microvascular dysfunction after cardioplegic arrest. Circulation. 2008 Sep 30;118(14 Suppl):S46-51. PMID: 18824768. PMCID: PMC2646506.

Manuscripts in Preparation or Under Revision
- Vega DM, **Nishimura KK**, Zariffa N, Thompson J, Hoering A, Cilento V, Rosenthal A, Anagnostou V, Baden J, Beaver JA, Chaudhuri A, Chudova D, Fine A, Fiore J, Hodge R, Hodgson D, Hunkapiller N, Klass D, Kobie J, Pena C, Pennello G, Peterman N, Philip R, Quinn K, Raben D, Rosner G, Sausen M, Tezcan A, Xia Q, Yi J, Young A, Stewart M, Carpenter E, Aggarwal G, Allen J. Changes in therapy ctDNA levels reflect clinical benefit to immune checkpoint inhibitors in an analysis of multiple studies in NSCLC. (Submitted to *JCO Precision Oncology*).
- Lee E, Thakur N, Neophytou A, Brown D, **Nishimura KK**, Eng C, Kumar R. Mak A. White M, Hu D, Huntsman S, Galanter J, Lurmann F, Farber H, Avila P, Brigino-Buenaventura E, Thyne S, Meade K, Serebrisky D, Rodriguez-Cintron W, LeNoir M, Rodriguez-Santana J, Borrell L, Pino-Yanes M, Seibold M, Balmes J, Eisen E, Burchard E. Asthma Molecular Phenotype and Ancestry Modify the Effect of Air Pollution on Exacerbations in Minority Children and Adolescents. (Under review at *Chest*).

Presentations
- **Nishimura KK**. Do Changes in ctDNA Reflect Reponse to Treatment: ctMoniTR Project Results. Webinar presentation with over 900 attendees, August 2020.
- **Nishimura KK**, Walker BA, Rosenthal A, Davies FE, Barlogie B, van Rhee F, Morgan GJ, Hoering A. Sequential Improvements in the Outcome of Autologous Stem Cell Transplantation for Multiple Myeloma Over Time. Poster presentation at the American Society of Hematology Conference, San Diego, CA, USA, November 30 – December 3, 2018.
- **Nishimura KK**. Genetics in Medicine. Invited speaker at the Cancer Biostatistics Symposium, Knight Cancer Institute. Portland, OR, USA, May 24, 2018.
- **Nishimura KK**, Hodonsky C, Haessler J, Carlson CS, Cheng I, Do R, Hindorff LA, James R, Kaplan RC, Kocarnik J, Le Marchand L, Park SL, Reiner AP, Thyagarjan B, Verbanck M, Wojcik GL, Avery CL, Haiman CA, Loos RJF, Matise TC, North K, Peters U, Kooperberg CL. Genetic Variants Associated with C-Reactive Protein Levels in US Minorities from the Population Architecture using Genomics and Epidemiology (PAGE II) Study. Poster presentation at the American Society for Human Genetics Conference, Vancouver, Canada, October 18 - October 22, 2016.
- **Nishimura KK**, Galanter JM, Roth LA, Oh SS, Farber HJ, Serebrisky D, Kumar R, Borrell LN, Brigino-Buenaventura E, Davis A, LeNoir MA, Meade K, Rodriguez-Cintron W, Avila PC, Rodriguez-Santana JR, Lurmann F, Sen S, Balmes JR, Burchard EG. Early Life Air Pollution & Asthma Risk in Minority Children. Poster presentation at the National Institute on Minority Health and Health Disparities Grantees' Conference, National Harbor, MD, November 30 – December 3, 2014.
- **Nishimura KK**, Oh SS, Galanter JM, Thakur N, Pino-Yanes M, Eng C, Iwanaga K, Avila PC, Keswani A, Roth LA, Nguyen EA, Thyne S, Farber HJ, Serebrisky D, Kumar R, Brigino-Buenaventura E, Davis A, Meade K, LeNoir MA, Rodriguez-Cintron W, Borrell LN, Bibbins-Domingo K, Rodriguez-Santana JR, Sen Ś,Lurmann F, Balmes JR, Burchard EG. Ethnicity Modifies Air Pollution - Lung Function Associations. Poster presentation at the National Institute on Minority Health and Health Disparities Grantees' Conference, National Harbor, MD, November 30 – December 3, 2014.
- **Nishimura KK**, Oh SS, Galanter JM, Thakur N, Pino-Yanes M, Eng C, Iwanaga K, Avila PC, Keswani A, Roth LA, Nguyen EA, Thyne S, Farber HJ, Serebrisky D, Kumar R, Brigino-Buenaventura E, Davis A, Meade K, LeNoir MA, Rodriguez-Cintron W, Borrell LN, Bibbins-Domingo K, Rodriguez-Santana JR, Sen Ś,Lurmann F, Balmes JR, Burchard EG. The Acute Effect of Air Pollution on Lung Function in the GALA II and SAGE II Studies of Latino and African American Children with Asthma. Poster presentation at the American Thoracic Society International Conference, San Diego, CA, May 16-21, 2014.
- Phan H, **Nishimura KK**, Helmrick M, Shin M, Curry J, O'Callahan R, Bulsara N, Fofanov VY, Kato-Maeda M, Hopewell P, Koshinsky H. Use of Next Generation Sequencing (NGS) for Multiplexed

Detection of Drug Resistant Genotypes and Heteroresistance Status of *Mycobacterium tuberculosis* (MTB). Poster presentation at the 18th Annual Conference of the Union-North American Region, International Union Against Tuberculosis and Lung Disease; Boston, MA, February 27 - March 1, 2014.

- **Nishimura KK**. Early Life Air Pollution and Asthma Risk in Minority Children. Oral presentation at the Pulmonary Research Conference, UC San Francisco Department of Pulmonary Critical Care, Allergy and Sleep Medicine. June 10, 2013.
- **Nishimura KK**, Galanter JM, Roth LA, Oh SS, Farber HJ, Serebrisky D, Kumar R, Borrell LN, Brigino-Buenaventura E, Davis A, LeNoir MA, Meade K, Rodriguez-Cintron W, Avila PC, Rodriguez-Santana JR, Lurmann F, Sen S, Balmes JR, Burchard EG. Early life air pollution exposures and the risk for asthma in a multi-center case-control study of Hispanic and African American children. Poster presentation at the American Thoracic Society International Conference, Philadelphia, PA, May 17-22, 2013.

Professional Training

- University of Washington, Summer Institute in Statistics for Clinical & Epidemiological Research (7/2021)
  - Module 1: Special Topics in Clinical Trials: Interpreting Exploratory Analyses & When Are Biomarkers Valid Surrogates?
  - Module 5: Evaluation of Biomarkers and Risk Models
  - Module 7: Improving Precision and Power in Randomized Trials by Leveraging Baseline Variables
  - Module 10: Generalized Estimating Equations for Longitudinal Data Analysis
  - Module 11: Mixed-effects Models for Longitudinal Data Analysis
  - Module 14: Joint Modeling of Longitudinal and Survival Data
  - Module 16: Use of Prognostic & Predictive Biomarkers in the Design of Clinical Studies
- University of Washington, Summer Institute in Statistics for Clinical & Epidemiological Research (7/2020)
  - Module 4: Bayesian Adaptive Clinical Trial Design
  - Module 6: Survival Analysis with Emphasis on Applications in Clinical Trials
  - Module 9: Data Monitoring Committees with Statistical Analysis Centers
  - Module 11: Use of Prognostic and Predictive Biomarkers in the Design of Clinical Studies
- University of Washington, Summer Institute in Statistics and Modeling in Infectious Diseases (7/2017)
  - Module 10: Statistics and Modeling with Novel Data Streams
- University of Washington, Summer Institute in Statistics for Big Data (7/2016)
  - Module 1: Big Data Wrangling in R
  - Module 2: Visualization of Biomedical Big Data
  - Module 3: Reproducible Research for Biomedical Big Data
- Yotta Biomed Hands-On NGS Analysis Workshop with Galaxy (9/2015)
- University of Washington, Summer Institute in Statistical Genetics (7/2015)
  - Module 7: Elements of R for Genetics and Bioinformatics
  - Module 9: Population Genetic Data Analysis
  - Module 13: Association Mapping: GWAS and Sequencing Data
- University of California, Davis Bioinformatics Training Program: Using the Linux Command Line for Analysis of High-Throughput Sequence Data (6/2015)
- University of Alabama, Birmingham NIGMS Statistical Genetic & Genomics Short Course (7/2012)

Awards and Honors

- Reviewers' Choice Abstract ribbon awarded to the to 10% of poster abstracts, American Society of Human Genetics, 2017
- University of Washington, Summer Institute in Statistics and Modeling in Infectious Diseases Scholarship, 2017
- University of Washington, Summer Institute in Statistics for Big Data Scholarship, 2016
- American Lung Association, Lung Health Dissertation Award, 2014

- American Thoracic Society International Conference, Assembly on Environmental and Occupational Health Abstract Scholarship, 2014
- Breathe California, Golden Gate Public Health Partnership, Walter Travel Fund Award, 2013
- University of Alabama, Birmingham NIGMS Statistical Genetics & Genomic Short Course Bursary Fellowship Award, 2012
- University of Alabama, Birmingham NIGMS Statistical Genetics & Genomic Short Course Travel Fellowship, 2012
- UC San Francisco Earle C. Anthony Travel Award, 2012

Service
- Ad hoc reviewer, JCO Clinical Cancer Informatics, 2019

Miscellaneous
- Head Coach, Vice President, and paddler for the Seattle Flying Dragon Boat Club
- Selected for the 2018 ICF US National Dragon Boat Team
- Former part-time staffer at Mary's Place emergency family homeless shelter
- Former trainee at the Seattle School of Taiko and the Seattle Kokon Taiko
- 6th on Harvard's Track and Field All-Time Performances list for the indoor pole vault